

INTERNATIONAL SEARCH REPORT

International Application No

PCT/IB2005/050221

A. CLASSIFICATION OF SUBJECT MATTER
INV. H01J61/72 H01J61/92

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
H01J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4 751 398 A (ERTZ III ALEXANDER L [US]) 14 June 1988 (1988-06-14) column 1 - column 4 column 12, line 26 - line 44	1-8
A	US 5 914 560 A (WINSOR MARK D [US]) 22 June 1999 (1999-06-22) column 1 - column 2	1-8
A	US 5 955 843 A (NUCKOLLS JOSEPH A [US] ET AL) 21 September 1999 (1999-09-21) column 1 column 3, line 47 - column 4, line 58	1-8
A	US 2002/047627 A1 (PICKERING CHARLES L [US]) 25 April 2002 (2002-04-25) paragraph [0003] paragraph [0008]	1,6,8

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the international search

19 October 2006

Date of mailing of the international search report

07/11/2006

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

But, Gabriela-Ileana

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/IB2005/050221

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 4751398	A	14-06-1988	NONE	
US 5914560	A	22-06-1999	NONE	
US 5955843	A	21-09-1999	NONE	
US 2002047627	A1	25-04-2002	NONE	